

GREEN

APPLICATION NO.

09/506,430

FILING DATE

02/17/00

TOWNSEND AND TOWNSEND AND CREW

TWO EMBARCADERO CENTER, 8TH FLOOR SAN FRANCISCO CA 94111

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office

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FIRST NAMED INVENTOR

ATTORNEY DOCKET NO.

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EXAMINER

HM22/1018
REW

LUKTON, D

FLOOR

ART UNIT PAPER NUMBER

1653

DATE MAILED:

10/18/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 09/506,430

Applicam(s)

Green

Examiner

David Lukton

Art Unit 1653



The MAILING DATE of this communication app	pears on the cover sheet with the correspondence address
Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS THE MAILING DATE OF THIS COMMUNICATION.	
 Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, 	ation.
be considered timely.	
communication.	period will apply and will expire SIX (6) MONTHS from the mailing date of this
 Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). 	statute, cause the application to become ABANDONED (35 U.S.C. § 133). mailing date of this communication, even if timely filed, may reduce any
Status	
1) 🔀 Responsive to communication(s) filed on Oct 1	10, 2001
•	s action is non-final.
3) Since this application is in condition for allowand closed in accordance with the practice under	ce except for formal matters, prosecution as to the merits is Ex parte Quayle35 C.D. 11; 453 O.G. 213.
Disposition of Claims	
4) 💢 Claim(s) <u>18-42</u>	is/are pending in the applica
	is/are withdrawn from considera
5)	is/are allowed.
	is/are rejected.
7) 🗌 Claim(s)	is/are objected to.
	are subject to restriction and/or election requirem
Application Papers	
9) The specification is objected to by the Examiner.	
10) The drawing(s) filed on	is/are objected to by the Examiner.
11) The proposed drawing correction filed on	
12) \square The oath or declaration is objected to by the Example 12.	miner.
Priority under 35 U.S.C. § 119	
13) Acknowledgement is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d).
a) All b) Some* c) None of:	
1. Certified copies of the priority documents ha	
	ave been received in Application No
 Copies of the certified copies of the priority application from the International Burn *See the attached detailed Office action for a list of t 	documents have been received in this National Stage reau (PCT Rule 17.2(a)). the certified copies not received.
14) ☐ Acknowledgement is made of a claim for domesti	
Attachment(s)	
15) X Notice of References Cited (PTO-892)	18) Interview Summary (PTO-413) Paper No(s).
16) Notice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (PTO-152)
17) Information Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:

Applicants' election of Group 8 (claims 18, 19, 21, 22, 28-35, 39, excluding compounds in which both of R' and R" is an amide) is acknowledged. In addition, applicants have reaffirmed the previously elected specie (pGlu-Trp).

Claims 18-22, 28-35, 39 are examined in part. Claims 23-27, 36-38, 40-42 are withdrawn from consideration.

*

This application contains sequence disclosures that are encompassed by the definitions for amino acid sequences set forth in 37 CFR 1.821. However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 with regard to the sequence disclosures.

See, for example, the peptide TAEEK (page 18).

Applicant is given the time period set in this letter within which to comply with the sequence rules, 37 CFR 1.821-1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136. In no case may an applicant extend the period for response beyond the six month statutory period.

Claims 18-22, 28-35, 39 are rejected under 35 U.S.C. §112 second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- Claim 18 recites the following:

 "wherein R' is present if R" is present if R" is absent"

 This contains an obvious error.
- Claim 18 is indefinite as to the process steps and endpoint. This rejection can be remedied by reciting that the compound is administered *for a time and under conditions effective to inhibit neovascularization*. Any of the following could be used:

A method of inhibiting neovascularization comprising administering to a subject in need thereof a pharmaceutical composition comprising compound of the formula R'Glu-Trp-R" in combination with a pharmaceutically acceptable carrier for a time and under conditions effective to inhibit neovascularization.

A method of inhibiting neovascularization comprising administering to a subject in need thereof a pharmaceutical composition for a time and under conditions effective to inhibit neovascularization, wherein said composition comprises a compound of the formula R'Glu-Trp-R" in combination with a pharmaceutically acceptable carrier.

A method of inhibiting neovascularization comprising administering to a subject in need thereof a pharmaceutical composition comprising compound of the formula R'Glu-Trp-R" in combination with a pharmaceutically acceptable carrier, wherein said method the composition is administered to the subject for a time and under conditions effective to inhibit neovascularization.

• In claim 20, the terms "Ac", "Suc", "Cpr", "But" may be used, but only if accompanied by the chemical names that they represent.

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rejections set forth in the Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made, absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103.

Claims 18, 19, 21, 22, 28-35, 39, are rejected under 35 U.S.C. §103 as being unpatentable over Nishimura (USP 3,997,516) or Ryan (USP 4,1917,53) in view of Rodgers (USP 5,716,935).

Nishimura discloses (e.g., col 10, line 44) a peptide that begins with the dipeptide pGlu-Trp, and further, that this peptide inhibits ACE. Similarly, Ryan discloses (e.g., col 5) peptide inhibitors of ACE that begin with the dipeptide pGlu-Trp. Neither reference discloses that inhibitors of ACE are also effective to inhibit neovascularization or angiogenesis. Rodgers discloses (col 3, line 5-10) that angiotensin stimulates neovascularization and angiogenesis. Rodgers does not disclose any of the peptides that are encompassed by the instant claims.

Accordingly, one of ordinary skill would have expected that an ACE inhibitor will inhibit

neovascularization and angiogenesis.

Thus, the claims are rendered obvious.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lukton. Phone: (703) 308-3213.

An inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

DAVID LUKTON PATENT EXAMINER GROUP 1800